# National Laboratory Training Network Workshop-in-a-Box

# **Practical Quality Control Principles for the Small Laboratory: Quantitative Tests**

## Description

This module provides an introductory presentation of concepts and principles of quality assurance (QA) and quality control (QC) as applied to a clinical laboratory. The module was designed primarily for persons working in small laboratories, and is appropriate for small group instruction. Any laboratory performing quantitative testing procedures may use this workshop-in-a-box (WIB) for the following: QA and QC, statistical basis of QC, types of QC materials, and recording and interpreting of QC data. This WIB is provided as a CD-ROM and requires a computer equipped with audio and CD-ROM capability. (Calculators are recommended. An LCD projector could be used if presenting to a group of participants.)

## **Objectives**

At the conclusion of this program, the participants should be able to

- discuss the importance of QA and QC programs in the clinical laboratory;
- name several factors that should be monitored and evaluated by a correctly designed QA program;
- explain how a QC system is used in the clinical laboratory to verify the accuracy of patient test results:
- define the following terms as they relate to a set of repeated measurements: accuracy, precision, frequency distribution, and central tendency;
- select the appropriate type of QC material for a given laboratory test procedure;
- outline the necessary steps which must be taken before a new batch of QC material is put into use;
- relate the correct technique for reconstituting and storing QC materials; and
- record QC data by using a Levey-Jennings chart.

#### Faculty

Designate a facilitator to present the material at your workshop. The facilitator should be a person with a laboratory or education background, who is comfortable presenting material in front of a group. The facilitator must be someone who is able to answer questions about the subject matter in regard to your institutional requirements.

## **Continuing Education**

CDC has been reviewed and approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET). CDC has awarded 0.5 CEUs to participants who successfully complete this program.

## Register Online - Cost \$60.00 (payable to APHL)

Register online at <a href="http://www.nltn.org/courses">http://www.nltn.org/courses</a>. (If you have difficulty with the online registration process, please send an e-mail to <a href="mailto:mwoffice@nltn.org">mwoffice@nltn.org</a>.) Upon receipt of your registration, a confirmation letter will be sent by e-mail to registered participants.

### Questions

Contact the Chicago NLTN office by e-mail at mwoffice@nltn.org or telephone at 312-793-3306.



The National Laboratory Training Network is a training system sponsored by the Association of Public Health Laboratories (APHL) and the Centers for Disease Control and Prevention (CDC).